

1

50

1 HHNGTNGTMM QYFEWHLPLND GNHWNRLRDD ASNLRNRGIT AIWIPPAWKG  
2 HHNGTNGTMM QYFEWYLPND GNHWNRLRDD AANLKSKGIT AVWIPPAWKG  
3 ....VNGTLM QYFEWYTPND GQHWKRLQND AEHLSDIGIT AVWIPPAYKG  
4 ..ANLNGTLM QYFEWYMPND GQHWRRRLQND SAYLAEHGIT AVWIPPAYKG  
5 .AAPFNGTMM QYFEWYLPDD GTLWTKVANE ANNLSLGIT ALWLPPAYKG

51

100

1 TSQNDVGYGA YDLYDLGEFN QKGTVRTKYG TRSQLESAIH ALKNNGVQVY  
2 TSQNDVGYGA YDLYDLGEFN QKGTVRTKYG TRNQLQAAVT SLKNNGIQVY  
3 LSQSDNGYGP YDLYDLGEFQ QKGTVRTKYG TKSELQDAIG SLHSRNVQVY  
4 TSQADVGYGA YDLYDLGEFH QKGTVRTKYG TKGELQSAIK SLHSRDINVY  
5 TSRSDVGYGV YDLYDLGEFN QKGTVRTKYG TKAQYLQAIQ AAHAAGMQVY

101

150

1 GDVVMNHKGG ADATENVLAV EVNPNNRNQE ISGDYTIEAW TKFDFFPGRGN  
2 GDVVMNHKGG ADGTEIVNAV EVNRSNRNQE TSGEYAIEAW TKFDFFPGRGN  
3 GDVVLNHKAG ADATEDVTAV EVNPANRNQE TSEEYQIKAW TDFRFPGRGN  
4 GDVVINHKGG ADATEDVTAV EVDPADRNRV ISGEHLIKAW THFHFPGRGS  
5 ADVVFDHKGG ADGTEWVDAV EVNPSDRNQE ISGTYQIQAW TKFDFFPGRGN

151

200

1 TYSDFKWRWY HFDGVDWDQS RQFQNRIYKF RGDGKAWDWE VDSENGNYDY  
2 NHSSFKWRWY HFDGTDWDQS RQLQNKIYKF RGTGKAWDWE VDTENGNYDY  
3 TYSDFKWHWY HFDGADWDES RKI.SRIFKF RGEKAWDWE VSSENGNYDY

4

4 TYSDFKWHWY HFDGTDWDES RKL.NRIYKF ..QGKAWDWE VSNENGNYDY  
5 TYSSFKWRWY HFDGVDWDES RKL.SRIYKF RGIGKAWDWE VDTENGNYDY

Fig. 1

1 LMYADVDMDH PEVVNELRRW GEWYTNLTNL DGFRIDAVKH IKYSFTRDWL  
2 LMYADVDMDH PEVIHELNRW GVWYTNLTNL DGFRIDAVKH IKYSFTRDWL  
3 LMYADVDDYDH PDVVAETKKW GIWYANELSL DGFRIDAAKH IKFSFLRDWV  
4 LMYADIDYDH PDVAAEIKRW GTWYANELQL DGFRLDVAVKH IKFSFLRDWV  
5 LMYADLMDH PEVVTELKNW GKWYVNTTNI DGFRLDVAVKH IKFSFFPDWL

251 300

1 THVRNATGKE MFAVAEFWKN DLGALENYLN KTNWNHVSVD VPLHYNLYNA  
2 THVRNTTGKP MFAVAEFWKN DLGALENYLN KTSWNHSAFD VPLHYNLYNA  
3 QAVRQATGKE MFTVAEYWQN NAGKLENYLN KTSFNQSVFD VPLHFNLQAA  
4 NHVREKTGKE MFTVAEYWQN DLGALENYLN KTNFNHVSVD VPLHYQFHAA  
5 SYVRSQTGKP LFTVGEYWSY DINKLHNYIT KTDGTMSLFD APLHNKFYTA

301 350

1 SNSGGNYDMA KLLNGTVVQK HPMHAVTFVD NHDSQPGESL ESFVQEWFKP  
2 SNSGGYYDMR NILNGSVVQK HPTHAVTFVD NHDSQPGEAL ESFVQQWFKP  
3 SSQGGGYDMR RLLDGTVVS R HPEKAVTFVE NHDTQPGQSL ESTVQTWFKP  
4 STQGGGYDMR KLLNGTVVSK HPLKSVTFVD NHDTQPGQSL ESTVQTWFKP  
5 SKSGGAFDMR TLMTNTLMKD QPTLAVTFVD NHDTEPGQAL QSWVDPWFKP

351 400

1 **LAYALILTRE QGYPSVFYGD YYGIPTHS..VPAMKAKID PILEARQNFA**

2 LAYALVLTRE QGYPSVFYGD YYGIPTHG..VPAMKSKID PLLQARQTFA  
3 LAYAFILTRE SGYPQVFYGD MYGTKGTSPK EIPSLKDNIE PILKARKEYA  
4 LAYAFILTRE SGYPQVFYGD MYGTKGDSQR EIPALKHKIE PILKARKQYA  
5 LAYAFILTRQ EGYPCVFYGD YYGIPQYN..IPSLKSKID PLLIARRDYA

401 450

1 YGTQHDYFDH HNIIGWTREG NTTHPNNSGLA TIMSDGPGGE KWMYVGQNKA  
2 YGTQHDYFDH HDIIGWTREG NSSHPNSGLA TIMSDGPGGN KWMYVGKNKA  
3 YGPQHDYIDH PDVIGWTREG DSSAAKSGLA ALITDGP GGS KRM YAGLKNA  
4 YGAQHDYFDH HDIVGTREG DSSVANSGLA ALITDGP GGA KRM YVGRQNA  
5 YGTQHDYLDH SDIIGWTREG GTEKPGSGLA ALITDGP GGS KWMYVGKQHA

		451		500	
1			GQVWHDITGN	KPGTVTINAD	GWANFSVNGG SVSIWVKR.. .....
2			GQVWRDITGN	RTGTVTINAD	GWGNFSVNGG SVSVWVKQ.. .....
3			GETWYDITGN	RSDTVKIGSD	GWGEFHVNDG SVSIYVQ... .....
4			GETWHDITGN	RSEPVVINSE	GWGEFHVNGG SVSIYVQR.. .....
5			GKVFYDLTGN	RSDTVTINSD	GWGEFKVNGG SVSVWVPRKT TVSTIARPI
		501		519	
1			.....	.....	
2			.....	.....	
3			.....	.....	
4			.....	.....	
5			TRPWTGEFVR	WTEPRLVAW	

Fig. 1 (continued)